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(43) Date of application publication:	(72) Inventor: TAKAGI YASUYUKI OTANI SUMIO YOKOTA MINORU
(84) Designated contracting states:	(74) Representative:

**(54) COMPLETENESS
TESTING METHOD**

(57) Abstract:

PURPOSE: To detect a defect of the structural parts of a filter and a filter cartridge at high precision by measuring diffusion flow rate of pressure holding value at the pressure of at least two points in a range of \leq 90% value of a bubble point of the filter.

CONSTITUTION: Liquid such as water which is low in solubility of gap and small in diffusion coefficient and high in surface tension δ is utilized for test liquid. The contact angle of test liquid and a membrane is regulated to θ . The relation of radius (r) of a defect of a filter or a cartridge and the spray pressure P of test liquid is shown in $r=2\delta\cos\theta/P$. Spray amount $QL(\text{ml}/\text{min})$ is obtained by an expression $QL=15\pi d^4 P/32L\eta$ in the case of (d) (μm) diameter of a defect, P (bar) differential pressure, L(m) length of the defect and η (μpoise) viscosity

of spray fluid. Accordingly, completeness can be tested at the pressures for two or more points of \leq 90% value of bubble, with the diffusion flow rate or pressure holding value and differential values between measurement points as an inspection standard point.

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